

ABSTRACT OF THE DISCLOSURE

An electromagnetic actuator comprising a stationary member, a movable member magnetically coupled with the stationary member with a gap  
5 therebetween, and a support member for displaceably supporting the movable member relative to the stationary member. Both the stationary member and the movable member have a core section carrying a coil wound around its periphery. As the coil of the  
10 stationary member and that of the movable member are energized with electric current, the movable member is attracted toward or repulsed from the stationary member. The electromagnetic actuator can be used for  
15 an optical scanner by providing a mirror or a lens on the movable member.